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cdutil.retrieve

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class ***GridAxis***([builtin .object](#))

Methods defined here:

[__init__](#)(self)

[__str__](#)(self)

Properties defined here:

delta

get">[get](#) = _get_delta(self)

set">[set](#) = _set_delta(self, value)

first

get">[get](#) = _get_first(self)

set">[set](#) = _set_first(self, value)

n

get">[get](#) = _get_n(self)

```
set">set = _set_n(self, value)
```

type

```
get">get = _get_type(self)
set">set = _set_type(self, value)
```

Data and other attributes defined here:

```
__slots__ = ['first', 'n', 'delta', 'type', '_first', '_n', '_delta', '_type']
```

class **VariableConditioner**(builtin.object)

Methods defined here:

```
__call__ = get(self, returnTuple=1)
```

```
__init__(self, source, var=None, weightsMaker=None, weightedGridMaker=None,
offset=0.0, slope=1.0, cdmsArguments=None, cdmsKeywords=None, id=None,
preprocess=None, preprocessKeywords={ }, comments="")
```

```
__str__(self)
```

```
get(self, returnTuple=1)
```

Properties defined here:

data

```
get">get = _get_data(self)
set">set = _set_data(self, value)
```

file

```
get">get = _get_file(self)
set">set = _set_file(self, value)
```

id

```
get">get = _get_id(self)
set">set = _set_id(self, value)
```

offset

```
get">get = _get_offset(self)
set">set = _set_offset(self, value)
```

slope

```
get">get = _get_slope(self)
set">set = _set_slope(self, value)
```

var

```
get">get = _get_var(self)
set">set = _set_var(self, value)
```

weightedGridMaker

```
get">get = _get_weightedGridMaker(self)
set">set = _set_weightedGridMaker(self, value)
```

Data and other attributes defined here:

```
__slots__ = ['source', 'var', 'data', 'file', 'weightsMaker', 'weightedGridMaker', 'slope',
'offset', 'cdmsArguments', 'cdmsKeywords', 'id', 'preprocessKeywords', 'preprocess',
'comments', '_var', '_id', '_slope', '_offset', '_file', '_data', ...]

cdmsArguments = <member 'cdmsArguments' of 'VariableConditioner' objects>

cdmsKeywords = <member 'cdmsKeywords' of 'VariableConditioner' objects>

comments = <member 'comments' of 'VariableConditioner' objects>

preprocess = <member 'preprocess' of 'VariableConditioner' objects>

preprocessKeywords = <member 'preprocessKeywords' of 'VariableConditioner' objects>

source = <member 'source' of 'VariableConditioner' objects>

weightsMaker = <member 'weightsMaker' of 'VariableConditioner' objects>
```

class ***VariableConditionerError***(WeightedGridMakerError)

Method resolution order:

```
VariableConditionerError
WeightedGridMakerError
WeightsMakerError
exceptions.Exception
```

Methods inherited from WeightsMakerError:

```
__init__(self, args)
```

Methods inherited from exceptions.Exception:

```
__getitem__(...)
```

```
__str__(...)
```

class ***VariablesMatcher***(builtin.object)

Methods defined here:

```
__call__ = get(self, returnTuple=1)
```

```
__init__(self, variableConditioner1=None, variableConditioner2=None,
externalVariableConditioner=None, weightedGridMaker=None, cdmsArguments=[],
```

```
cdmsKeywords={ })
```

```
__str__(self)
```

```
get(self, returnTuple=1)
```

Data and other attributes defined here:

```
__dict__ = <dictproxy object>
          dictionary for instance variables (if defined)
```

```
__weakref__ = <attribute '__weakref__' of 'VariablesMatcher' objects>
             list of weak references to the object (if defined)
```

```
class VariablesMatcherError(VariableConditionerError)
```

Method resolution order:

```
VariablesMatcherError
VariableConditionerError
WeightedGridMakerError
WeightsMakerError
exceptions.Exception
```

Methods inherited from WeightsMakerError:

```
__init__(self, args)
```

Methods inherited from exceptions.Exception:

```
__getitem__(...)
```

```
__str__(...)
```

```
class WeightedGridMaker(builtin.object)
```

Methods defined here:

```
__call__ = get(self)
```

```
__init__(self, source=None, var=None, nlat=None, flat=None, dellat=None,
grid_type='uniform', nlon=None, flon=None, dellon=None, weightsMaker=None)
```

```
__str__(self)
```

```
get(self)
```

Properties defined here:

```
file
```

```
get">get = _get_file(self)
set">set = _set_file(self, value)

grid
get">get = _get_grid(self)
set">set = _set_grid(self, value)

var
get">get = _get_var(self)
set">set = _set_var(self, value)
```

Data and other attributes defined here:

`__slots__ = ['grid', 'var', 'file', 'longitude', 'latitude', 'weightsMaker', '_var', '_file', '_grid']`

`latitude` = <member 'latitude' of 'WeightedGridMaker' objects>

`longitude` = <member 'longitude' of 'WeightedGridMaker' objects>

`weightsMaker` = <member 'weightsMaker' of 'WeightedGridMaker' objects>

class **WeightedGridMakerError**(WeightsMakerError)

Method resolution order:

WeightedGridMakerError
WeightsMakerError
exceptions.Exception

Methods inherited from WeightsMakerError:

`__init__(self, args)`

Methods inherited from exceptions.Exception:

`__getitem__(...)`

`__str__(...)`

class **WeightsMaker**(builtin.object)

Methods defined here:

`__call__ = get(self, input=None)`

`__init__(self, source=None, var=None, values=None,
actions=[<cdms.MV.var_binary_operation instance>],
combiningActions=[<cdms.MV.var_binary_operation instance>])`

`__str__(self)`

```
# Representation of Mask object  
  
get(self, input=None)
```

Properties defined here:

```
var  
    get">get = _get_var(self)  
    set">set = _set_var(self, value)
```

Data and other attributes defined here:

```
__slots__ = ['mask', 'var', 'values', 'actions', 'file', 'combiningActions', 'data', '_var']  
  
actions = <member 'actions' of 'WeightsMaker' objects>  
  
combiningActions = <member 'combiningActions' of 'WeightsMaker' objects>  
  
data = <member 'data' of 'WeightsMaker' objects>  
  
file = <member 'file' of 'WeightsMaker' objects>  
  
mask = <member 'mask' of 'WeightsMaker' objects>  
  
values = <member 'values' of 'WeightsMaker' objects>
```

```
class WeightsMakerError(exceptions.Exception)
```

Methods defined here:

```
__init__(self, args)
```

Methods inherited from exceptions.Exception:

```
__getitem__(...)
```

```
__str__(...)
```